

PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 116056	FOR FURTHER ACTION	See Notification of Examination Repo	Transmittal of International Preliminary rt (Form PCT/IPEA/416).
International Application No.	International Filing Date (day/month/year)	te	Priority Date (day/month/year)
PCT/AU2003/001369	16 October 2003		17 October 2002
International Patent Classification (IPC) or	national classification an	id IPC	
Int. Cl. 7 A61N 1/05, 1/18, H01J 9/02	, H01B 5/14		
Applicant COCHLEAR LIMITED et al			
This international preliminary examina is transmitted to the applicant according.	tion report has been prep g to Article 36.	pared by this Internat	cional Preliminary Examining Authority and
2. This REPORT consists of a total of 6			
amended and are the basis for th 70.16 and Section 607 of the Ad	is report and/or sheets co ministrative Instructions	intaining rectification	, claims and/or drawings which have been ns made before this Authority (see Rule
These annexes consist of a total	of sheet(s).		
3. This report contains indications relating	g to the following items:		
I X Basis of the report			
II Priority		•	
III Non-establishment of o	pinion with regard to nov	elty, inventive step	and industrial applicability
IV X Lack of unity of inventi	on		
V X Reasoned statement und citations and explanatio	ler Article 35(2) with reg	gard to novelty, inventent	ntive step or industrial applicability;
VI X Certain documents cited	i		
VII Certain defects in the in	ternational application		
VIII X Certain observations on	the international applica	ition .	
Date of submission of the demand		Date of completion	of the report
13 February 2004		28 January 2005	
Name and mailing address of the IPEA/AU		Authorized Officer	
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	ALIA	GREG POWEL	

1.	Basis of the report
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages, filed with the demand,
	pages, received on with the letter of
	the claims, pages, as originally filed,
	pages , as amended (together with any statement) under Article 19.
	pages, filed with the demand,
	pages, received on with the letter of
	the drawings, pages, as originally filed,
	pages, filed with the demand, pages, received on with the letter of
	the sequence listing part of the description:
	pages , as originally filed pages , filed with the demand
	pages, received on with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in
	which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
<u> </u>	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
••	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

IV.	1	Lack of 1	unity of invention
1.	In res	sponse to	the invitation to restrict or pay additional fees the applicant has:
		restricte	ed the claims.
		paid ad	ditional fees.
		paid ad	ditional fees under protest.
		neither	restricted nor paid additional fees.
2.	X		uthority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, nvite the applicant to restrict or pay additional fees.
3.	This	Authorit	y considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		compli	ed with.
	X	not con	nplied with for the following reasons:
		relate t	ternational application does not comply with the requirements of unity of invention because it does not to one invention or to a group of inventions so linked as to form a single general inventive concept. In g to this conclusion the International Examination Authority has found that there are different ions in the independent claims as follows:
		1.	Claims 1, 24, 26 are directed to an electrically conducting lead including an electrically conductive element which is comprised of a plurality of layers of electrical conductors. It is considered that the electrically conductive element comprised of a plurality of layers of electrical conductors comprises a first "special technical feature".
		2.	Claims 27 and 28 are directed to an electrically conducting lead, and the lead when used in a tissue-stimulating prosthesis, wherein the lead has an undulating form for at least a portion of its length. It is considered that the lead having an undulating form for at least a portion of its length comprises a "second special technical feature".
		"techn	the above-mentioned groups of claims do not share either of the technical features identified, a ical relationship" between the inventions, as defined in PCT rule 13.2 does not exists. Accordingly the ational application does not relate to one invention or to a single inventive concept.
4.	Con		y, the following parts of the international application were the subject of international preliminary examination in shing this report:
		X a	ll parts.
		tł	ne parts relating to claims Nos.

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations
	and explanations supporting such statement

1. Statement	·	
Novelty (N)	Claims 1-28	YES
	Claims	NO
Inventive step (IS)	Claims 1-28	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-28	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

Claims 1-28 meet the criteria for novelty, inventive step and industrial applicability. The prior art published before the priority date does not disclose an electrically conducting lead where the lead is either composed of a plurality of stacked conductors, or is composed of at least two wires having an undulating form in one direction.

With regard to the document listed in Box VI under "certain documents cited", this is a document published prior to the international filing date but later than the priority date claimed but which would otherwise be considered to be of particular relevance.

Under the PCT, novelty is considered only in respect of documents published before the priority date. The relevance of a document published after the priority date is dependent upon national law. Such documents are excluded from consideration in preliminary examination, under the PCT Guidelines but have been included here for information.

. Certain published documents	s (Rule 70.10)		
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
P, X WO 2002/089907	14 November 2002	7 May 2002	7 May 2001
 Non-written disclosures (Ru 	ile 70.9)		
. Non-written disclosures (Ru Kind of non-written disclo	sure Date of non-w	ritten disclosure Dat onth/year)	e of written disclosure referring to non-written disclosure (day/month/year)
	sure Date of non-w		non-written disclosure
	sure Date of non-w		non-written disclosure
	sure Date of non-w		non-written disclosure
	sure Date of non-w		non-written disclosure
	sure Date of non-w		non-written disclosure
	sure Date of non-w		non-written disclosure
Kind of non-written disclo	osure Date of non-w (day/mo		non-written disclosure
	osure Date of non-w (day/mo	onth/year)	non-written disclosure (day/month/year)
Kind of non-written disclo	osure Date of non-w (day/mo	onth/year)	non-written disclosure (day/month/year)
Kind of non-written disclo	osure Date of non-w (day/mo	onth/year)	non-written disclosure (day/month/year)
Kind of non-written disclo	osure Date of non-w (day/mo	onth/year)	non-written disclosure (day/month/year)
Kind of non-written disclo	osure Date of non-w (day/mo	onth/year)	non-written disclosure (day/month/year)

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

1. Claim 15 is not supported by the description. It purports to define a method of manufacturing the lead of claim 1, but only includes the step of winding a conductive element around an insulative body. This one step would not create the lead of claim 1.

More specifically, there is no limitation to the type of conductive element being wound. It is clear that this element must be composed of a plurality of layers of electrical conductors. Furthermore, the lead of claim 1 has the conductive element extending through (i.e. inside) the insulative body. Winding the element around the body does not place it inside the body. In addition, the different conductors of claim 1 are supposed to have the same longitudinal extent. This is achieved in the present application by either winding the element clockwise for the first half of the lead and then anti-clockwise for the other half, or by twisting the element halfway through the wind. This limitation is not present.

2. Claim 27 is not clear. It defines the lead as having a wire set which extends "across the set" in a first direction and then defines ridges and troughs extending "across the set" at angle to the first direction. The dual use (and apparent double meaning) of "across the set" is confusing. It would appear that this claim is meant to define that the wires of each set extend longitudinally in a first direction, and that the ridges and troughs are alternately formed along the longitudinal extent of the wires, but that they extend at an angle to the longitudinal direction, or something similar. However, this does not come out clearly.